

ABSTRACT OF THE DISCLOSURE

A signal path tracking method and system for symbol timing recovery. In digital communication, a receiver requires a symbol sampler and a match filter to digitalize analog signals. The symbol sampler establishes on-time samples according to preset current sampling points. The present invention provides a method to improve synchronization between the receiver and the received signal by comparing the current sampling points with acquisition of maximum signal strength. The moving average of the timing difference is used to predict expected errors for future sampling points. The timing scheme is then adjusted according to the expected errors in order to generate future sampling points for sampling subsequent symbols precisely, thereby recovering the synchronization.